

1 **What is claimed is:**

1 *Sub* 1. A cover for a wiring aperture through a surface
5 of an item of furniture and the like, the cover comprising
a plug member and a closure member for an opening formed
in the plug member, the plug member including a body
having a planform shape similar to but larger in dimension
than a selected portion of a selected wiring aperture to
10 be covered and a substantially flat obverse surface,
projection means depending from a reverse surface of the
body for mating with boundaries of the aperture to be
covered and for positioning the plug member in the
15 aperture with a peripheral margin of the body in overlying
relation to the surface in which the aperture is present,
the projection means being located on the body about a
20 space which opens away from the body reverse surface, the
plug member opening being defined in the body and
extending from inwardly of the body peripheral margin to
and through the body peripheral margin, the closure member
25 for the body opening being captive to the body and movable
relative to the body between a) a closed position in which
the closure member closes the opening and has an edge
thereof essentially continuous with the body peripheral
30 margin adjacent the opening, and b) an open position in
which the closure member depends from the body reverse
surface in the space without projection above the body
35 obverse surface and in which the opening is fully open
through the body, the closure member having an obverse
surface substantially flush with the body obverse surface

1 in the closed position of the closure member.

5 2. A wiring aperture cover according to claim 1
including means cooperating between the plug and closure
member for releasibly holding the closure member in its
closed position.

10 3. A wiring aperture cover according to claim 2
wherein the means cooperating between the plug and closure
members includes means confining part of the motion of the
closure member relative to the body into and out of the
15 closed position to sliding motion.

20 4. A cover for a wiring aperture as recited in
claim 1 comprising means integral to the body affording
slidable cooperation of the closure member within the plug
member opening.

25 5. A cover for a wiring aperture as recited in
claim 4 comprising means integral to the body limiting
sliding of the closure member away from the plug member
opening to a position within the opening where the closure
30 member can rotate downward to its open position.

1 6. A cover for a wiring aperture as recited in
claim 1 comprising means integral to the body affording
captive cooperation of the closure member within the body
5 and accommodating pivoting of the closure member to and
from its open position.

10 7. A cover for a wiring aperture as recited in
claim 1 comprising means integral to the body affording
locking cooperation between the closure member and the
body when the closure member is inserted completely within
15 plug member opening.

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Subj 12 8. A wire management grommet comprising:
an annular liner substantially in the form of
20 a generally hollow cylindrical sleeve;
a cap having a skirt sized to fit snugly yet
releasably within the sleeve;
an opening formed in the cap extending from
25 proximate an inner portion to an outer marginal edge of
the cap;
a closure member cooperating with the opening,
the closure member being captive to and movable within the
30 cap and having a boss at a first end thereof and a base
at a second opposite end;
means for fitting and locking the closure member
within the opening; and
35 means for affording motion of the closure member
from a position closing the opening to a position fully

1 exposing the opening, both the closure member and the
2 ~~means for affording motion being substantially hidden in~~
3 a topside view of the cap when the closure member is in
4 its position fully exposing the opening.

9. A grommet as recited in claim 8 wherein the cap
comprises:

10 an underside surface having a set of parallel
ribs depending from the surface and positioned adjacent
to each side of the opening.

15 10. A grommet as recited in claim 9 wherein each rib
further comprises a flange integral to the rib, each
flange originating proximate the midpoint of the rib's
20 length and depending from the rib's surface.

11. A grommet as recited in claim 8 wherein the
closure member comprises

25 a boss located at one end of the closure member
that extends outwardly away from the closure member's top
surface, ^{Said boss has} the boss having a shape and size conforming with
the opening, the cap's surface, and the cap's marginal
30 edge when fitted within the opening; and
B the closure member comprises
a pair of tongues extending outwardly away from
each side of the closure member proximate the boss.

1 12. A grommet as recited in claim 8 wherein the
means for fitting and locking the closure member within
the opening comprises

5 a pair of grooves formed between the underside
surface of the cap and a cooperating pair of ribs integral
to the cap, the grooves being positioned adjacent the
opening;

10 a pair of tongues, each extending
perpendicularly outward away from the closure member
proximate the boss, the tongues being sized to permit
slidable interaction within the grooves allowing the
15 closure member to fit within the opening;

 a detent recess located in the cap's underside
positioned adjacent to the opening; and

20 a detent boss extending outwardly away from the
top surface of the tongue, the cooperative interaction
between the detent recess and detent boss upon alignment
causing the closure member to hold position in the
25 opening.

30 13. A grommet as recited in claim 8 wherein the
means for affording motion of the closure member from a
position closing the opening to a position exposing the
opening comprises

35 a set of pins carried by the closure member,
each pin extending perpendicularly outward from ^{Sa.d opposite} ~~the base~~ ^{end} of the closure member;

 a set of parallel ribs depending from the

1 underside of the cap, each rib being positioned adjacent
a respective edge of the opening; and
a set of grooves formed between the cap's
5 underside surface and the ribs, the grooves being sized
to accommodate the slidable interaction of the closure
member through the pin and groove interaction, the pin and
groove arrangement permitting the hingeable rotation of
10 the closure member within the cap.

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14. A wire management grommet comprising
15 an annular liner having a hollow cylindrical
sleeve;
a cap engageable in the sleeve and having an
opening formed through a principle surface of the cap, the
opening extending to and through an edge margin of the
20 cap;
a closure member captive to the cap;
means for affording the closure member to
25 interlock with the cap;
means for affording the closure member to slide
within the cap and be a captive component of the cap; and
means for affording the closure member to pivot
30 relative to the cap.

15. A grommet as recited in claim 14 wherein the
35 *enabling*
means for affording the closure member to interlock with
the cap comprises
a tongue and groove arrangement, the tongue

1 being carried by the closure member and the groove being
formed between the cap's underside surface and ribs
carried by the cap, the ribs being of sufficient distance
5 from the cap's underside to permit the slidable engagement
of the tongue within the groove when the closure member
is moved into the opening; and

10 a detent arrangement comprising a detent recess
and a detent boss, the closure member having a detent
element complimentary to the detent element of the cap,
the location of the detent recess and boss being such that
15 alignment of both detent elements is achieved upon the
insertion of the closure member completely within the
opening.

20 16. A grommet as recited in claim 14 wherein the
~~means for affording~~ ^{enabling} the closure member to slide within the
cap and ^{be} ~~remain~~ a captive component of the cap comprises

25 a pin and groove arrangement, the pin being
carried by and extending outwardly from the closure
member, the groove being carried by the cap;

30 a stop carried by the cap serving to limit
travel of the closure member towards the mouth of the
opening; and

35 a skirt depending from the cap's underside and
blocking the closure member to prevent disengagement of
the pin and groove arrangement.

1 17. A grommet as recited in claim 14 wherein the
means for ~~affording~~ ^{enabling} the closure member to pivot comprises
5 a pin and groove arrangement cooperating between
the closure member and the cap for providing slidable and
hingeable movement of the closure member relative to the
cap;

10 flange means carried by the cap positioned along
the closure member's path of travel;

15 wall means carried by the closure member, the
interaction between the wall and flange means serving to
stabilize and guide the movement of the closure member
toward and away from the underside of the cap; and

20 means carried by the closure member for limiting
hinging motion of the closure member relative to the cap.

25 ~~Sub A~~ 18. A cover for a wiring aperture through a surface
of an item of furniture and the like, the cover comprising
at least one plug member and a closure member for an
opening formed in the plug member, the plug member
including a body having a planform shape similar to but
larger in dimension than a corresponding portion of a
30 selected wiring aperture to be covered by the cover, the
plug member having a substantially flat obverse surface,
projection means depending from a reverse surface of the
body for mating with boundaries of the wiring aperture and
35 for positioning the plug member in the aperture with a
peripheral margin of the body in overlying relation to a
surface adjacent the aperture, the projection means being

1 located on the body about a space substantially centrally
of the body which opens away from the body reverse
surface, the plug member opening being defined in the body
5 and extending from an inner portion of the body to and
through an edge of the body, the closure member for the
body opening being captive to the body and movable
relative to the body between a) a closed position in which
10 the closure member closes the opening and has an edge
thereof essentially continuous with the body edge adjacent
the opening, and b) an open position in which the closure
member depends from the body reverse surface in the space
15 without projection above the body obverse surface and in
which the opening is fully open through the body.

20 19. A wiring aperture cover according to claim 18
wherein the cover comprises a pair of plug members
configured for cooperation with each other in the wiring
aperture.

25 20. A wiring aperture cover according to claim 19
wherein the openings in the plug members are located in
each plug member for registration with the opening in the
30 other plug member upon cooperation of the plug members
with each other in the aperture.

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21. A wire management grommet for routing wire through a wiring aperture formed in a surface of furniture and the like, the grommet comprising an annular liner and a cover, the liner having a hollow cylindrical sleeve of shape and dimension substantially similar to the aperture to permit cooperation within a furniture wiring aperture, the cover comprising at least one plug member for closing a substantial portion of a hole formed by the liner and a closure member for an opening formed in the plug member, the plug member including a body having a planform shape similar to but larger in dimension than a corresponding portion of a selected wiring aperture to be at least partially covered by the cover, the plug member having a substantially flat obverse surface, projection means depending from a reverse surface of the body for mating with boundaries of the liner sleeve seated within the furniture wiring aperture, the projection means serving to position the plug member in the sleeve with a peripheral margin of the body in overlying relation to a surface adjacent the aperture, the projection means being located on the body about a space substantially centrally of the body which opens away from the body reverse surface, the plug member opening being defined in the body and extending from an inner portion of the body to and through an edge of the body, the closure member for the body opening being captive to the body and movable relative to the body between a) a closed position in which the closure member closes the opening and has an edge

1 thereof essentially continuous with the body edge adjacent
 the opening, and b) an open position in which the closure
 member depends from the body reverse surface in the space
5 without projection above the body obverse surface and in
 which the opening is fully open through the body.

10 22. A wire management grommet as recited in 21
 wherein the liner comprises a sleeve having a rectangular
 planform shape.

15 23. A wire management grommet as recited in 22
 wherein the plug member comprises a square planform shape
 of sufficient size to permit cooperation within the
 rectangular sleeve.

20 24. A wire management grommet as recited in 23
 wherein the aspect ratio of the sleeve is substantially
 2:1

25 25. A wire management grommet as recited in 21
 wherein the liner comprises a sleeve having at least a
 portion of its perimeter circularly cylindrical in shape.

30 26. A wire management grommet as recited in 25
 wherein the plug member has a planform shape which is
 substantially a quadrant of a circle of sufficient radius
35 to permit cooperation within the circularly cylindrical-
 shaped sleeve.

1 27. A wire management grommet as recited in 26
 wherein the number of quadrant-shaped plug members
 accommodated by the sleeve depends upon whether the
5 circularly cylindrical-shaped portion of the sleeve
 comprises 90, 180, 270, or 360 degrees.

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